Nipron

Test Data
PC1U-210P-X2S
(AC85~264V)

DC POWER SUPPLY

Approved by : *H. Imai*

Prepared by : *A. Tatsumi*

INPUT : AC 85V ~ 264V

OUTPUT : V1: 5V 12A (Peak 24A)
V2: 3.3V 6A (Peak 14A)
V3: 12V 8A (Peak 10A)
V4: -5V 0.3A
V5: -12V 0.8A
V6: 5Vs 1.5A (Peak 2.5A)

株式会社 ニプロン
Nipron.Co.,Ltd.

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Model	PC1U-210P-X2S
Item	Line Regulation

V1 5V 12A

at AC Input

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	5.061	1.22
100	5.061	1.22
240	5.061	1.22
264	5.061	1.22

V2 3.3V 6A

at AC Input

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	3.275	-0.76
100	3.275	-0.76
240	3.275	-0.76
264	3.275	-0.76

Model	PC1U-210P-X2S
Item	Line Regulation

V3 12V 8A

at AC Input

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	12.014	0.12
100	12.012	0.10
240	12.019	0.16
264	12.018	0.15

V4 -5V 0.3A

at AC Input

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	-4.978	-0.44
100	-4.978	-0.44
240	-4.978	-0.44
264	-4.978	-0.44

Model	PC1U-210P-X2S
Item	Line Regulation

V5 -12V 0.8A

at AC Input

■ Rated Load

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	-11.480	-4.33
100	-11.480	-4.33
240	-11.480	-4.34
264	-11.480	-4.34

V6 5Vs 1.5A

at AC Input

■ Rated Load

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	5.069	1.38
100	5.069	1.38
240	5.068	1.36
264	5.068	1.36

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Model	PC1U-210P-X2S
Item	Input Current　by Load Power

at AC Input

at AC Input

Load Power [W]	Input Current　[A rms]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	0.37	0.32	0.18	0.18
39.6	0.84	0.71	0.32	0.33
79.2	1.45	1.21	0.54	0.52
118.8	2.07	1.73	0.75	0.71
158.4	2.73	2.27	0.96	0.90

Model	PC1U-210P-X2S
Item	Input Power　by Load Power

at AC Input

		AC85V
		AC100V
		AC240V
		AC264V

at AC Input

Load Power [W]	Input Power　[W]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	30.99	30.88	30.49	30.44
39.6	70.54	69.29	66.88	66.99
79.2	121.93	120.17	115.70	115.28
118.8	175.32	172.29	164.89	164.55
158.4	231.35	226.26	214.60	213.97

Model	PC1U-210P-X2S
Item	Efficiency

at AC Input

Legend: ■ 50%Load (dashed) ◆ 100%Load

at AC Input

Input Voltage [V]	Efficiency [%]	
	50% Load	100% Load
85	65.60	68.70
100	66.56	70.25
240	69.13	74.06
264	69.39	74.28

at AC Input

Legend: ■ AC85V ◆ AC100V ▲ AC240V ● AC264V

at AC Input

Load Power [W]	Efficiency [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
39.6	56.87	57.90	59.98	59.88
79.2	65.60	66.56	69.13	69.39
118.8	68.21	69.42	72.54	72.69
158.4	68.70	70.25	74.06	74.28

Model	PC1U-210P-X2S
Item	Power Factor

at AC Input

at AC Input

Input Voltage [V]	Power Factor [%]	
	50%Load	100% Load
85	99.13	99.55
100	99.07	99.49
240	89.92	93.16
264	83.93	90.26

at AC Input

at AC Input

Load Power [W]	Power Factor [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
39.6	98.23	98.17	86.01	77.25
79.2	99.13	99.07	89.92	83.93
118.8	99.44	99.37	91.99	87.65
158.4	99.55	99.49	93.16	90.26

Model	PC1U-210P-X2S
Item	Instantaneous Interruption Compensation (by Load Power)

at AC Input (85V / 100V / 240V / 264V)

AC Input

PWR-OK

T_A

Output Voltage

T_B

PW-OK

Output Voltage

Interruption Detecting Time[ms]
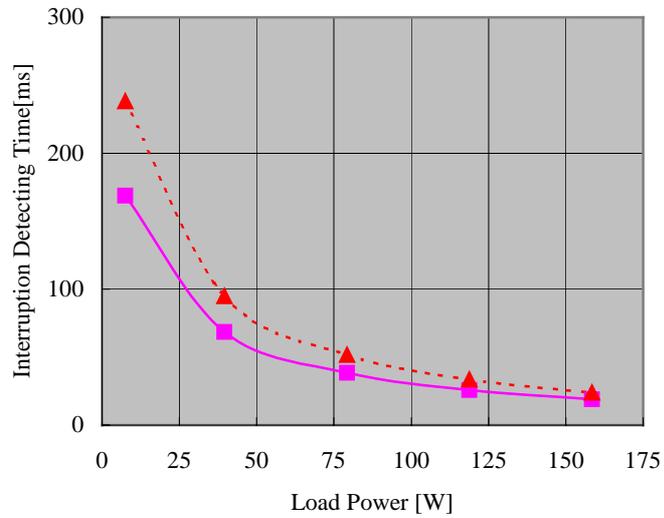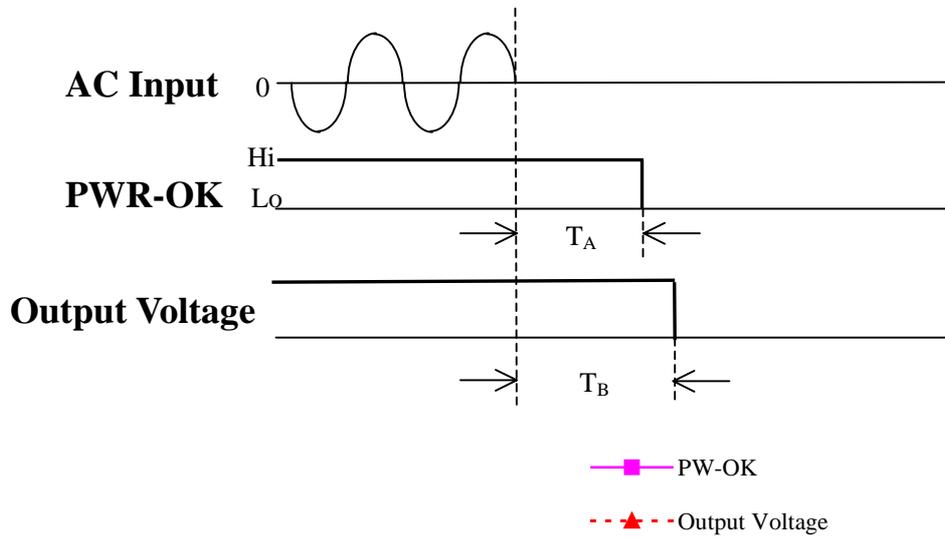
Load Power [W]

Load Power [W]	Interruption Detecting Time (ms)	
	PWR-OK T_A	DC Output T_B
7.5	169.02	238.20
39.6	68.70	94.88
79.2	38.64	51.76
118.8	25.84	33.58
158.4	18.94	24.04

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Model	PC1U-210P-X2S
Item	Load Regulation

V1 5V 12A

at AC Input

Legend: AC85V, AC100V, AC240V, AC264V

at AC Input

Load Power [W]	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	2.68	2.68	2.68	2.68
39.6	2.44	2.44	2.44	2.44
79.2	2.04	2.04	2.04	2.04
118.8	1.64	1.64	1.64	1.64
158.4	1.22	1.22	1.22	1.22
209.6	0.28	0.24	0.24	0.24

Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
7.5	1.5	0	0	0	0	0
39.6	3	1.5	1.25	0.08	0.2	0.38
79.2	6	3	2.5	0.15	0.4	0.75
118.8	9	4.5	3.75	0.23	0.6	0.13
158.4	12	6	5	0.3	0.8	1.5
209.6	24	0	5.5	0.3	0.8	2.5

V2 3.3V 6A

at AC Input

Legend: AC85V, AC100V, AC240V, AC264V

at AC Input

Load Power [W]	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	0.27	0.27	0.27	0.27
39.6	0.12	0.12	0.09	0.09
79.2	-0.21	-0.21	-0.21	-0.21
118.8	-0.48	-0.48	-0.48	-0.48
158.4	-0.76	-0.76	-0.76	-0.76
185.8	-1.97	-1.94	-1.91	-1.91

Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
7.5	1.5	0	0	0	0	0
39.6	3	1.5	1.25	0.08	0.2	0.38
79.2	6	3	2.5	0.15	0.4	0.75
118.8	9	4.5	3.75	0.23	0.6	0.13
158.4	12	6	5	0.3	0.8	1.5
185.8	10	14	5.5	0.3	0.8	2.5

Model	PC1U-210P-X2S
Item	Load Regulation

V3 12V 8A

at AC Input

- ■— AC85V
- ◆— AC100V
- ▲— AC240V
- ●— AC264V

Fluctuation Value [%] vs Load Power [W]

at AC Input

Load Power [W]	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	1.51	1.51	1.52	1.52
39.96	1.29	1.29	1.30	1.30
79.91	0.98	1.00	1.00	1.01
119.87	0.62	0.62	0.62	0.63
159.8	0.12	0.10	0.16	0.15
209.6	0.07	0.03	-0.02	-0.06

Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
7.5	1.5	0	0	0	0	0
39.96	1.7	0.85	2	0.08	0.2	0.38
79.91	3.4	1.7	4	0.15	0.4	0.75
119.87	5.1	2.55	6	0.23	0.6	1.13
159.8	6.8	3.4	8	0.3	0.8	1.5
209.6	10	5	10	0.3	0.8	2.4

V4 -5V 0.3A

at AC Input

- ■— AC85V
- ◆— AC100V
- ▲— AC240V
- ●— AC264V

Fluctuation Value [%] vs Load Power [W]

at AC Input

Load Power [W]	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	-0.22	-0.22	-0.22	-0.22
39.6	-0.40	-0.40	-0.40	-0.40
79.2	-0.34	-0.36	-0.36	-0.36
118.8	-0.40	-0.40	-0.40	-0.40
158.4	-0.44	-0.44	-0.44	-0.44

Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
7.5	1.5	0	0	0	0	0
39.6	3	1.5	1.25	0.08	0.2	0.38
79.2	6	3	2.5	0.15	0.4	0.75
118.8	9	4.5	3.75	0.23	0.6	0.13
158.4	12	6	5	0.3	0.8	1.5

Model	PC1U-210P-X2S
Item	Load Regulation

V5 -12V 0.8A

at AC Input

- ■— AC85V
- ◆— AC100V
- ▲--- AC240V
- ●-- AC264V

Fluctuation Value [%] vs Load Power [W]

at AC Input

Load Power [W]	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	-3.77	-3.77	-3.77	-3.77
39.6	-3.87	-3.87	-3.87	-3.87
79.2	-4.06	-4.06	-4.06	-4.06
118.8	-4.20	-4.20	-4.20	-4.20
158.4	-4.33	-4.33	-4.34	-4.34

Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
7.5	1.5	0	0	0	0	0
39.6	3	1.5	1.25	0.08	0.2	0.38
79.2	6	3	2.5	0.15	0.4	0.75
118.8	9	4.5	3.75	0.23	0.6	0.13
158.4	12	6	5	0.3	0.8	1.5

V6 5Vs 1.5A

at AC Input

- ■— AC85V
- ◆— AC100V
- ▲--- AC240V
- ●-- AC264V

Fluctuation Value [%] vs Load Power [W]

at AC Input

Load Power [W]	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	2.20	2.20	2.20	2.20
39.6	2.08	2.08	2.08	2.08
79.2	1.80	1.80	1.80	1.80
118.8	1.60	1.60	1.60	1.58
158.4	1.38	1.38	1.36	1.36
209.6	2.08	2.08	2.08	2.08

Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
7.5	1.5	0	0	0	0	0
39.6	3	1.5	1.25	0.08	0.2	0.38
79.2	6	3	2.5	0.15	0.4	0.75
118.8	9	4.5	3.75	0.23	0.6	0.13
158.4	12	6	5	0.3	0.8	1.5
209.6	24	0	5.5	0.3	0.8	2.5

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Model	PC1U-210P-X2S
Item	Ripple / Noise Voltage Test

Temperature	Input Voltage	V1 5V Ripple (mV)	/	Noise (mV)	V2 3.3V Ripple (mV)	/	Noise (mV)	V3 12 Ripple (mV)	/	Noise (mV)
-5	85 V	24	/	28	16	/	20	44	/	55
	100 V	20	/	24	16	/	20	44	/	55
	240 V	20	/	24	16	/	20	44	/	55
	264 V	20	/	24	16	/	20	44	/	60
25	85 V	16	/	20	16	/	20	36	/	40
	100 V	16	/	20	16	/	20	36	/	40
	240 V	16	/	20	12	/	16	36	/	40
	264 V	16	/	20	12	/	16	36	/	40
55	85 V	10	/	20	12	/	20	30	/	40
	100 V	10	/	20	12	/	20	30	/	40
	240 V	10	/	20	12	/	20	30	/	40
	264 V	10	/	20	12	/	20	30	/	40
Specification		50	/	100	50	/	100	120	/	170
Judgement		Good			Good			Good		

Temperature	Input Voltage	V4 -5V Ripple (mV)	/	Noise (mV)	V5 -12V Ripple (mV)	/	Noise (mV)	V6 5VS Ripple (mV)	/	Noise (mV)
-5	85 V	20	/	24	20	/	24	20	/	24
	100 V	20	/	24	20	/	24	20	/	24
	240 V	20	/	24	20	/	24	20	/	24
	264 V	20	/	24	20	/	24	20	/	24
25	85 V	16	/	20	10	/	20	16	/	20
	100 V	16	/	20	10	/	20	16	/	20
	240 V	16	/	20	10	/	20	16	/	20
	264 V	16	/	20	10	/	20	16	/	20
55	85 V	10	/	30	10	/	30	10	/	30
	100 V	10	/	30	10	/	30	10	/	30
	240 V	10	/	28	10	/	30	10	/	30
	264 V	10	/	28	10	/	30	10	/	30
Specification		100	/	100	150	/	200	50	/	100
Judgement		Good			Good			Good		

Model	PC1U-210P-X2S
Item	Over-Current Protection

Temperature	Input Voltage		V1 5V		V2 3.3V		V3 12V	
-5	85	V	29.4	A	18.0	A	13.7	A
	100	V	29.6	A	18.0	A	13.7	A
	240	V	29.6	A	18.0	A	13.5	A
	264	V	29.6	A	17.9	A	13.5	A
25	85	V	27.8	A	16.8	A	12.8	A
	100	V	27.6	A	16.7	A	12.7	A
	240	V	27.6	A	16.7	A	12.6	A
	264	V	27.6	A	16.5	A	12.5	A
55	85	V	27.8	A	16.4	A	13.1	A
	100	V	27.8	A	16.3	A	13.1	A
	240	V	27.8	A	16.2	A	12.9	A
	264	V	27.8	A	16.2	A	12.9	A
Specification			26.4A or More		14.4A or More		11A or More	
Judgement			Good		Good		Good	

Temperature	Input Voltage		V4 -5V		V5 -12V		V6 5VS	
-5	85	V	1.05	A	1.95	A	3.8	A
	100	V	1.05	A	1.95	A	3.8	A
	240	V	1.05	A	1.95	A	3.8	A
	264	V	1.05	A	1.95	A	3.8	A
25	85	V	0.85	A	1.70	A	3.3	A
	100	V	0.85	A	1.65	A	3.3	A
	240	V	0.85	A	1.65	A	3.3	A
	264	V	0.90	A	1.60	A	3.3	A
55	85	V	0.80	A	1.45	A	2.9	A
	100	V	0.80	A	1.50	A	2.9	A
	240	V	0.80	A	1.50	A	2.9	A
	264	V	0.80	A	1.50	A	2.9	A
Specification			-		-		-	
Judgement			-		-		-	

Model	PC1U-210P-X2S
Item	Over-Voltage Protection

Temperature	Input Voltage	V1 5V	V2 3.3V	V3 12V
-5	AC100V	6.8V	4.28V	14.3V
	AC240V	6.8V	4.27V	14.3V
25	AC100V	6.7V	4.10V	14.4V
	AC240V	6.7V	4.10V	14.4V
55	AC100V	6.5V	3.83V	14.5V
	AC240V	6.5V	3.84V	14.5V
Specification		6.0 7.0V	3.8 4.3V	14.0 15.6V
Judgment		Good	Good	Good

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Model	PC1U-210P-X2S
Item	Inrush Current

Inrush Current Wave

```
* MEM *   trig:SINGLE CH2 leve ⌐ 55%  ⌐5%
  50μs   x1/100   csr:↕ A&B  A:CH2 B:CH2
  (5ms/div)                    ⊿v=24.8mV

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  chl ■ - ×1   ch2 ■ ÷ ×1
  20V 50%  10mV 50%
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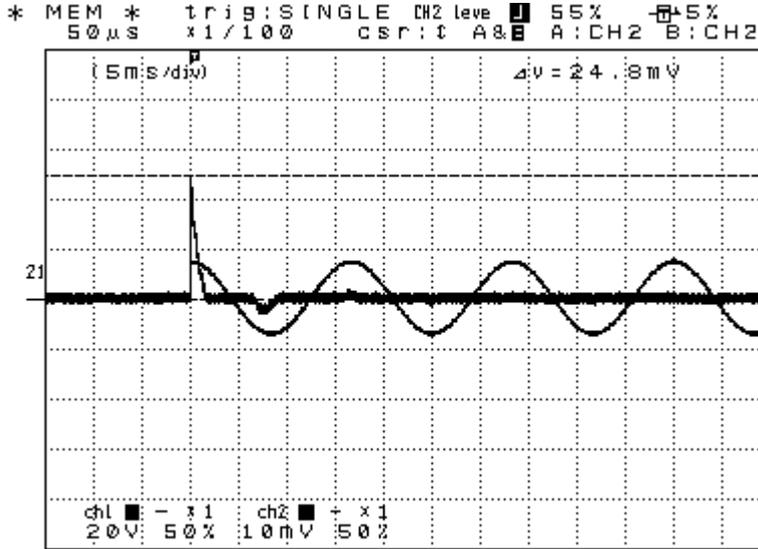
Wave No.1		
CH1	Measuring Point	
	Input Voltage	
	Range 200V/DIV	
CH2	Measuring Point	
	Input Current	
	Range 10A/DIV	
Time Line	5ms/DIV	
Conditions	Input AC100V	
	60Hz	
	Load Rated Load	
Note		
Inrush Current Value 24.8A		

```
* MEM *   trig:SINGLE CH2 leve ⌐ 52%  ⌐5%
  50μs            csr:↕ A&B  A:CH2 B:CH2
  (5ms/div)                    ⊿v=41.6mV

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  chl ■ - ×1   ch2 ■ ÷ ×1
  20V 50%  10mV 50%
```
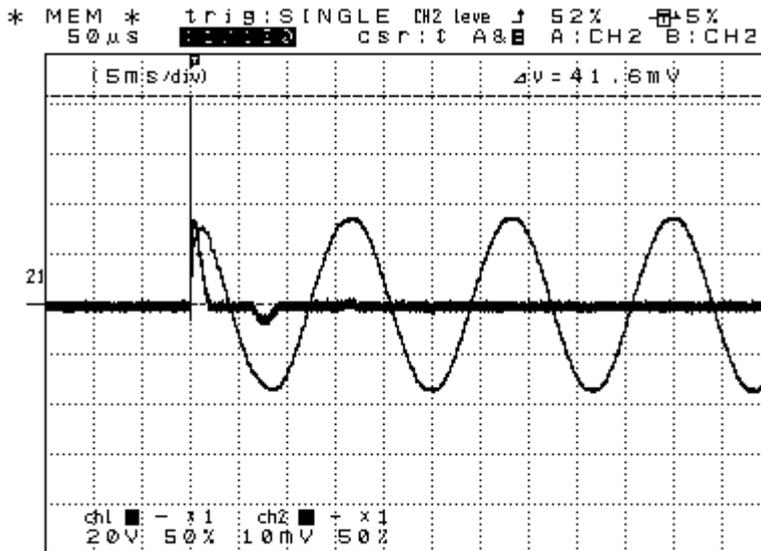
Wave No.2		
CH1	Measuring Point	
	Input Voltage	
	Range 200V/DIV	
CH2	Measuring Point	
	Input Current	
	Range 20A/DIV	
Time Line	5ms/DIV	
Conditions	Input AC240V	
	60Hz	
	Load Rated Load	
Note		
Inrush Current Value 83.2A		

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Model	PC1U-210P-X2S
Item	Dynamic Load Response

V1 +5V 12A

70% Load   100% Load
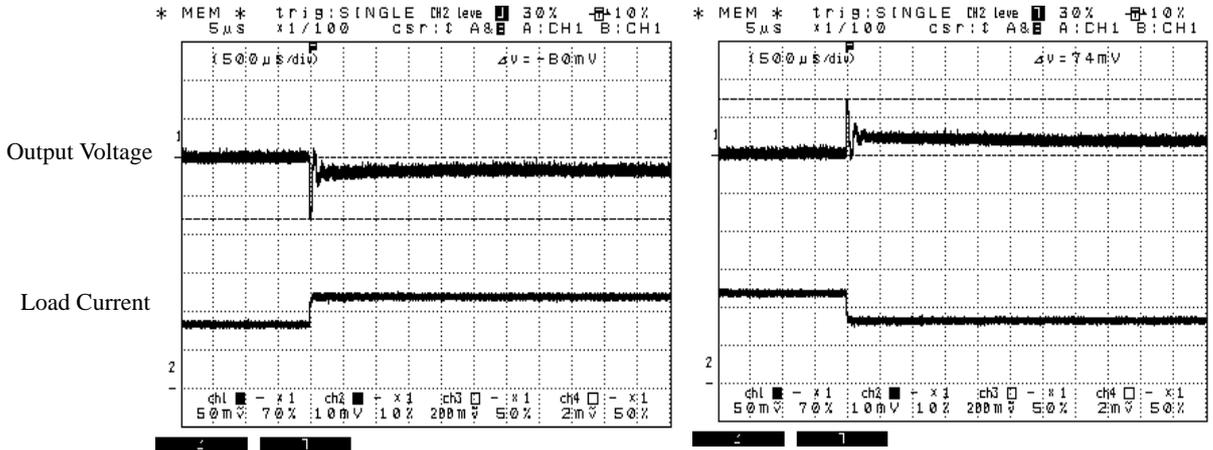
Output Voltage

Load Current

Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70%Load 100% Load	mV -80mV	± 250mV	Good
100% Load 70% Load	74mV mV		Good

Model	PC1U-210P-X2S
Item	Dynamic Load Response

V2 +3.3V 6A

70% Load   100% Load
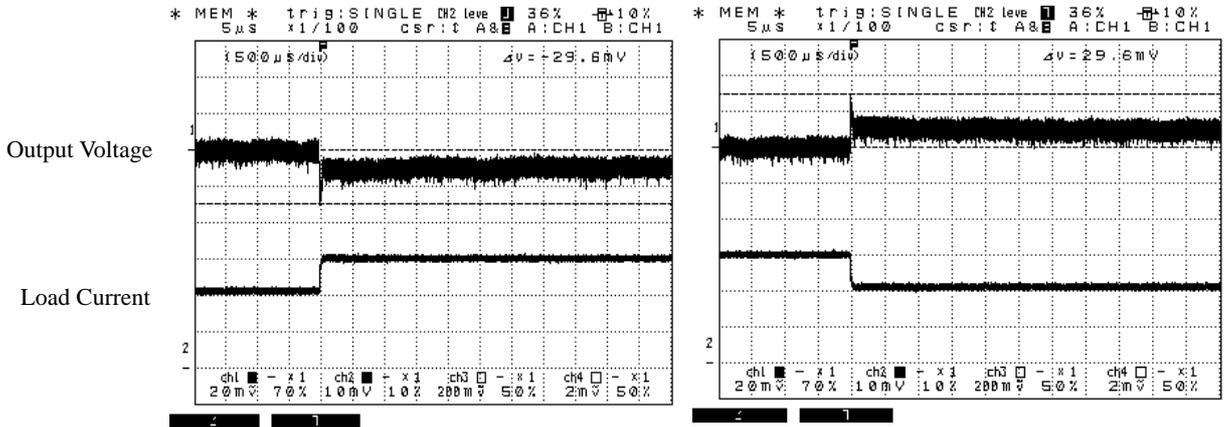
Output Voltage

Load Current

Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70%Load 100% Load	mV -29.6mV	± 165mV	Good
100% Load 70% Load	29.6mV mV		Good

Model	PC1U-210P-X2S
Item	Dynamic Load Response

V3 +12V 8A

50% Load   100% Load

Output Voltage
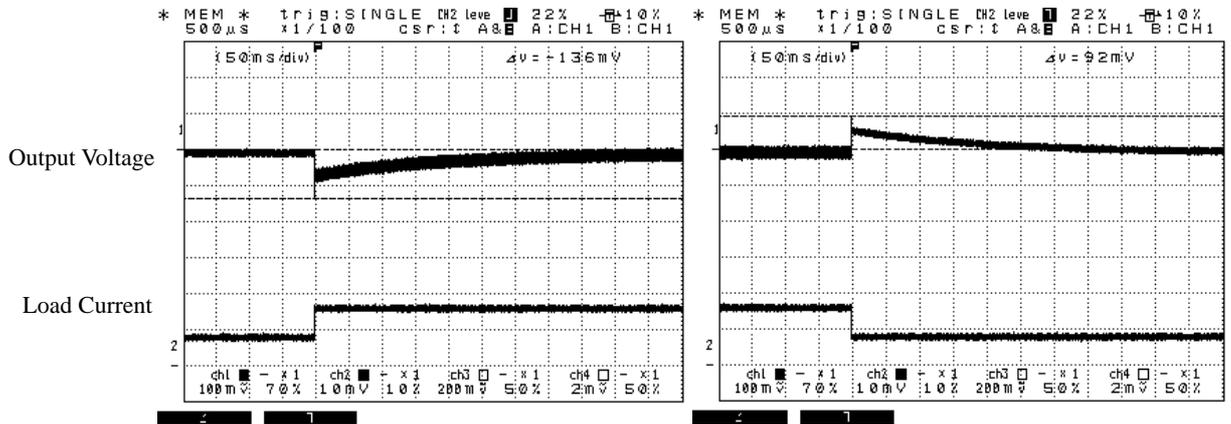
Load Current

Sudden Fluctuation of Load		Fluctuation Value	ATX Specific Value	Judgement
50%Load	100% Load	mV -136mV	± 600mV	Good
100% Load	50% Load	92mV mV		Good

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Model	PC1U-210P-X2S
Item	12V Cross Regulation

Legend: 5V 1.5A, 5V 6A, 5V 12A, 5V 24A

12V Load Current	12V Voltage Value [V]			
	5V 1.5A	5V 6A	5V 12A	5V 24A
0A	12.236	12.216	12.188	12.162
1.25A	12.218	12.197	12.171	12.146
2.5A	12.202	12.181	12.154	12.129
3.75A	12.185	12.163	12.136	12.112
5A	12.166	12.145	12.116	12.092
5.5A	12.158	12.136	12.108	12.083
8A	12.117	12.095		
10A	12.061	12.040		

12V Load Current	Fluctuation Value [%]			
	5V 1.5A	5V 6A	5V 12A	5V 24A
0A	1.97	1.8	1.57	1.35
1.25A	1.82	1.64	1.42	1.22
2.5A	1.68	1.51	1.28	1.08
3.75A	1.54	1.36	1.13	0.93
5A	1.38	1.21	0.97	0.77
5.5A	1.32	1.13	0.90	0.69
8A	0.98	0.79		
10A	0.51	0.33		

Nipron

Model	PC1U-210P-X2S
Item	Ambient Temperature Drift

V1 5V 12A

Legend:
- AC85V
- AC100V
- AC240V
- AC264V

Fluctuation Value [%] vs Temperature [ ]

at AC Input

Temperature ( )	Output Voltage [V]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	5.042	5.042	5.042	5.042
25	5.034	5.034	5.034	5.034
55	5.026	5.026	5.026	5.026

Temperature ( )	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	0.84	0.84	0.84	0.84
25	0.68	0.68	0.68	0.68
55	0.52	0.52	0.52	0.52

V2 3.3V 6A

Legend:
- AC85V
- AC100V
- AC240V
- AC264V

Fluctuation Value [%] vs Temperature [ ]

at AC Input

Temperature ( )	Output Voltage [V]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	3.279	3.279	3.279	3.278
25	3.282	3.282	3.282	3.282
55	3.284	3.284	3.284	3.284

Temperature ( )	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-0.64	-0.64	-0.64	-0.67
25	-0.55	-0.55	-0.55	-0.55
55	-0.48	-0.48	-0.48	-0.48

Model	PC1U-210P-X2S
Item	Ambient Temperature Drift

V3 12V 8A

Legend: AC85V, AC100V, AC240V, AC264V

Y-axis: Fluctuation Value [%]
X-axis: Temperature [ ]

at AC Input

Temperature ( )	Output Voltage [V]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	12.115	12.115	12.114	12.114
25	12.099	12.099	12.099	12.099
55	11.962	11.962	11.963	11.963

Temperature ( )	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	0.96	0.96	0.95	0.95
25	0.83	0.83	0.83	0.83
55	-0.32	-0.32	-0.31	-0.31

V4 -5V 0.3A

Legend: AC85V, AC100V, AC240V, AC264V

Y-axis: Fluctuation Value [%]
X-axis: Temperature [ ]

at AC Input

Temperature ( )	Output Voltage [V]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-4.934	-4.934	-4.934	-4.934
25	-4.941	-4.942	-4.943	-4.943
55	-4.949	-4.949	-4.949	-4.949

Temperature ( )	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-1.32	-1.32	-1.32	-1.32
25	-1.18	-1.16	-1.14	-1.14
55	-1.02	-1.02	-1.02	-1.02

Model	PC1U-210P-X2S
Item	Ambient Temperature Drift

V5 -12V 0.8A

Legend:
- ■ AC85V
- ◆ AC100V
- ▲ AC240V
- ● AC264V

at AC Input

Temperature ( )	Output Voltage [V]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-11.843	-11.843	-11.844	-11.844
25	-11.839	-11.839	-11.839	-11.839
55	-11.832	-11.832	-11.832	-11.832

Temperature ( )	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-1.31	-1.31	-1.30	-1.30
25	-1.34	-1.34	-1.34	-1.34
55	-1.40	-1.40	-1.40	-1.40

V6 5Vs 1.5A

Legend:
- ■ AC85V
- ◆ AC100V
- ▲ AC240V
- ● AC264V

at AC Input

Temperature ( )	Output Voltage [V]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	5.054	5.054	5.052	5.052
25	5.044	5.044	5.043	5.043
55	5.036	5.036	5.034	5.034

Temperature ( )	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	1.08	1.08	1.04	1.04
25	0.88	0.88	0.86	0.86
55	0.72	0.72	0.68	0.68

Model	PC1U-210P-X2S
Item	Harmonic Current

Measuring Instrument   MP701(Keisoku Giken)

[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0061	13	0.0459	26	0.0007	39	0.0109
01	2.2553	14	0.0004	27	0.0144	40	0.0009
02	0.0021	15	0.0266	28	0.0004	41	0.0073
03	0.1386	16	0.0007	29	0.0097	42	0.0008
04	0.0010	17	0.0174	30	0.0010	43	0.0053
05	0.0904	18	0.0008	31	0.0086	44	0.0004
06	0.0017	19	0.0182	32	0.0006	45	0.0066
07	0.1120	20	0.0011	33	0.0118	46	0.0009
08	0.0018	21	0.0222	34	0.0013	47	0.0081
09	0.0956	22	0.0008	35	0.0136	48	0.0007
10	0.0014	23	0.0224	36	0.0008	49	0.0088
11	0.0702	24	0.0000	37	0.0135		
12	0.0007	25	0.0193	38	0.0006		

Model	PC1U-210P-X2S
Item	Harmonic Current

Measuring Instrument   MP701(Keisoku Giken)
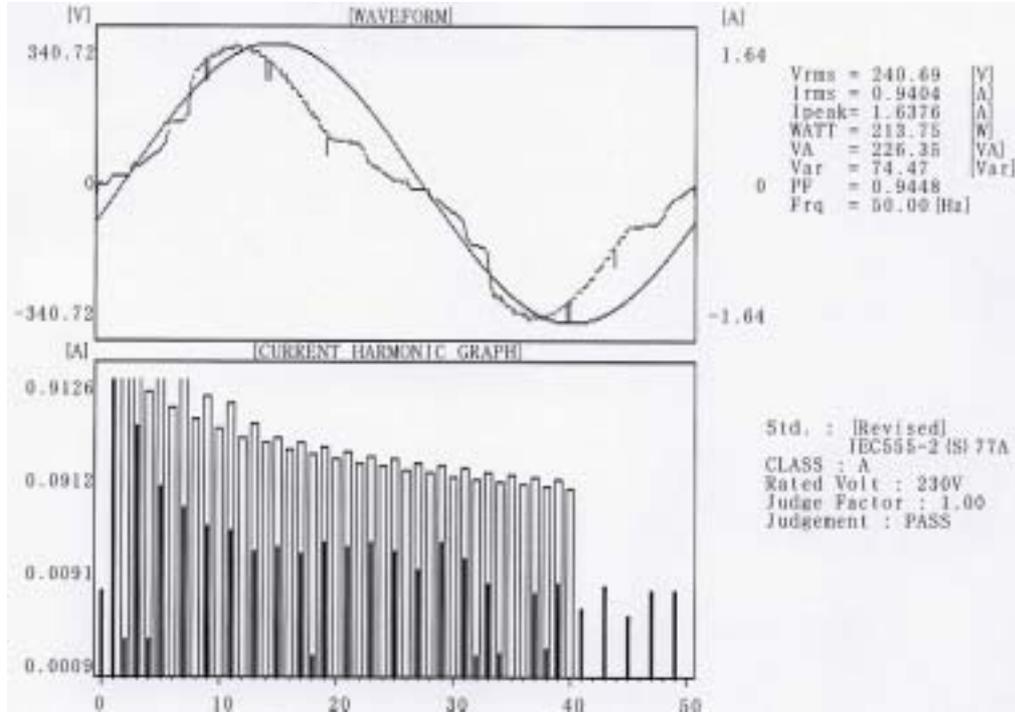
[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0044	13	0.0109	26	0.0008	39	0.0052
01	0.9126	14	0.0002	27	0.0073	40	0.0003
02	0.0014	15	0.0123	28	0.0006	41	0.0029
03	0.2092	16	0.0007	29	0.0137	42	0.0008
04	0.0014	17	0.0105	30	0.0007	43	0.0050
05	0.0498	18	0.0010	31	0.0093	44	0.0007
06	0.0009	19	0.0139	32	0.0009	45	0.0025
07	0.0310	20	0.0008	33	0.0052	46	0.0007
08	0.0000	21	0.0123	34	0.0010	47	0.0044
09	0.0206	22	0.0008	35	0.0007	48	0.0007
10	0.0008	23	0.0137	36	0.0007	49	0.0045
11	0.0178	24	0.0009	37	0.0043		
12	0.0009	25	0.0109	38	0.0011		

Model	PC1U-210P-X2S
Item	Leakage Current Test

Temperature   Room Temperature
Input   AC100V   240V
Load   Rated Load   Minimum Load

Input Voltage V	at Rated Load mA	at Minimum Load mA
100V	0.16	0.12
240V	0.30	0.28

Measuring Instrument YEW.TYPE3226 Applicable Products   Range   K

Model	PC1U-210P-X2S
Item	Line Noise Tolerance

Temperature   Room Temperature
Input   AC100V,60Hz
Load   Rated Load
Noise Impressed Voltage   ± 2000V
Repeat Cycle   10   35ms
Pulse Width   100,800ns

Normal	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -

Common R Phase	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -

Common S Phase	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -

   No Trouble

   Faulty Operation of Over-Voltage and so on

× Power Supply Breakdown

Measuring Instrument   INS420 (Noise Laboratory Co.,Ltd.)